

IFW16

RAW SEQUENCE LISTING DATE: 07/25/2006
PATENT APPLICATION: US/10/791,791A TIME: 11:20:25

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3 <110> APPLICANT: NAKAO, YOSHIHIRO
         NAKAMURA, NORIHISA
 4
         KODAMA, YUKIKO
 5
         FUJIMURA, TOMOKO
 6
         ASHIKARI, TOSHIHIKO
 7
 9 <120> TITLE OF INVENTION: SCREENING METHODS FOR GENES OF BREWING YEAST
11 <130> FILE REFERENCE: 47635-0002-00-US
13 <140> CURRENT APPLICATION NUMBER: 10/791,791A
14 <141> CURRENT FILING DATE: 2004-03-04
16 <150> PRIOR APPLICATION NUMBER: JP 2003-057677
17 <151> PRIOR FILING DATE: 2003-03-04
19 <160> NUMBER OF SEQ ID NOS: 37
21 <170> SOFTWARE: PatentIn Ver. 3.3
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26 <213> ORGANISM: Saccharomyces sp.
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31 ctgaggatat gctcgtacat catgtttgcc attacatgtt tgattttcat ctctgtacag 180
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36 ttagtaaccg cttgggggat ttcattcctc atctggcaaa agtactactt cgtggacggg 480
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41 ctttacatca ataagatacc accaatgacg caggtattta cgttgttctt ggtattgggg 780
42 ccattgggcc aaggaagttt tggtattttg ttgcttactg acaatataag aaagtatgta 840
43 gaaaaatact acccaaggga aaacatcacc atggaacaag aaatactaac cattatggtt 900
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46 aatgaaacag gcaaagtgaa aaggatctac actttccata aaggtttctg ggggatgact 1080
47 ttcccgatgg gtaccatgtc tttgggaaac gaggagctgt atctgcaata caaccagtat 1140
48 gttcccttat atgcattcag agtcatagct accatatatg gtggtatttg tgtttgctgg 1200
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63 gataacattc gttttggttt gaataaggat ttgggcttct cagaaaagga cagaaatgaa 240
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66 qcaqqcttqa aqttcattga aatttttgtt gatqttccat tagaaqtcgc tgagcaaaga 420
67 gaccctaagg gtttgtataa gaaagccaga gaaggtgtga ttaaagagtt cactggtatt 480
68 tragetrett argaagetre aaaggerera gagttgeatt taagaactga ccaaaagact 540
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85 Ser Phe Pro Tyr Pro Ala Arg Trp Leu Arg Ile Cys Ser Thr Ile Met
88 Phe Ala Ile Thr Cys Leu Ile Phe Ile Ser Val Gln Ala Leu Gln Leu
91 Leu His Met Val Ile Tyr Ile Lys Glu Lys Ser Phe Arg Asp Tyr Phe
94 Asn Glu Tyr Phe Arg Ser Leu Lys Tyr Asn Leu Phe Trp Gly Thr Tyr
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97 Pro Met Gly Leu Val Thr Ile Ile Asn Phe Leu Gly Ala Leu Ser Gln
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100 Lys Phe Thr Thr Thr Ser Pro Ala Asn Ala Lys His Leu Ile Ile Phe
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115 Ser Gly Gly Thr Phe Thr Met Ser Lys Ile Phe Gly Thr Thr Phe Asp
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	Thr	Asp	Asn 275		Arg	Lys	Týr	Val 280		Lys	Tyr	Tyr	Pro 285		Glu	Asn	
	Ile	Thr 290		Glu	Gln	Glu	Ile 295		Thr	Ile	Met	Val		Trp	Cys	Phe	
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		Phe	Thr	Val	Ile 325		Leu	Ile	Ser	Ile 330		Ser	Tyr	Tyr	Asn 335		
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	His	Lys	Gly 355		Trp	Gly	Met	Thr 360		Pro	Met	Gly	Thr 365		Ser	Leu	
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154 155	Ser	Ile	Leu	Сув	Leu 405	Ser	Cys	Thr	Leu	Tyr 410	Gly	Tyr	Leu	Lys	Thr 415	Ile	
157 158	Leu	His	Ala	Ala 420	Arg	Lys	Pro	Ser	Phe 425	Leu	Ser	Glu	Glu	Gly 430	Thr	Glu	
160 161	-	Thr	Val 435	Asn	Ser	Pro	Phe	Asn 440	Ser	Ile	Glu	Ser	Val 445	Glu	Glu	Ser	
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						Saccharomyces sp.											
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174		AIA	TIIL	ASII	5	1111	Trp	птв	PIO	10	пеп	1111	ıyı	Asp	15	Arg	
		Glu	Leu	Ara	_	Gln	Asp	Glv	Cvs		Val	Trp	Leu	Thr		Leu	
177				20	•				25			-		30	•		
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183		50	_				Ala 55	_				60					
186	65	_			_	70	Leu	_			75					80	
188 189	Asn	Ile	Arg	Arg	Ile 85	Ser	Glu	Val	Ser	Lys 90	Leu	Phe	Ala	Asp	Ser 95	Cys	
192				100			Phe		105					110			
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197 Phe Val Asp Val Pro Leu Glu Val Ala Glu Gln Arg Asp Pro Lys Gly 130 135 200 Leu Tyr Lys Lys Ala Arg Glu Gly Val Ile Lys Glu Phe Thr Gly Ile 203 Ser Ala Pro Tyr Glu Ala Pro Lys Ala Pro Glu Leu His Leu Arg Thr 170 204 206 Asp Gln Lys Thr Val Glu Glu Cys Ala Ala Ile Ile Tyr Glu Tyr Leu 207 185 180 209 Val Asn Glu Lys Ile Ile Arg Lys His Leu 195 213 <210> SEQ ID NO: 5 214 <211> LENGTH: 15 215 <212> TYPE: DNA 216 <213> ORGANISM: Artificial Sequence 218 <220> FEATURE: 219 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide 222 <400> SEQUENCE: 5 223 agtcacgacg ttgta 15 226 <210> SEQ ID NO: 6 227 <211> LENGTH: 17 228 <212> TYPE: DNA 229 <213> ORGANISM: Artificial Sequence 231 <220> FEATURE: 232 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide 235 <400> SEQUENCE: 6 17 236 caggaaacag ctatgac 239 <210> SEQ ID NO: 7 240 <211> LENGTH: 22 241 <212> TYPE: DNA 242 <213> ORGANISM: Artificial Sequence 244 <220> FEATURE: 245 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide 248 <400> SEQUENCE: 7 249 aggcgtatca cgaggccctt tc 22 252 <210> SEQ ID NO: 8 253 <211> LENGTH: 29 254 <212> TYPE: DNA 255 <213> ORGANISM: Artificial Sequence 257 <220> FEATURE: 258 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide 261 <400> SEQUENCE: 8 29 262 cttatcgatg ataagcggtc aaacatgag 265 <210> SEQ ID NO: 9 266 <211> LENGTH: 36 267 <212> TYPE: DNA

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337

oligonucleotide

VERIFICATION SUMMARY

DATE: 07/25/2006

PATENT APPLICATION: US/10/791,791A

TIME: 11:20:26

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Output Set: N:\CRF4\07252006\J791791A.raw